

Atty. Docket No. CH919990004US1  
(590.016)

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Cancelled)

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Cancelled)

6. (Cancelled)

7. (Cancelled)

8. (Currently Amended) An organic material having tris (8-quinolinato)aluminum(III) (Alq3) as a base unit and wherein said Alq3 is substituted solely in positions selected from the group consisting of the 3-, 4- and 5- positions and wherein:

said 3- or 4-position is substituted with a group consisting of an electron-donor group; and

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said 5-position is simultaneously substituted with a group consisting of an electron-acceptor or p-delocalizing group.

9. **(Original)** The material according to Claim 8, wherein said electron-donor group in said 3- or 4-position is selected from a group consisting of  $-CR'R''$ ,  $NR_2$ , and  $-OR$ , wherein  $R$ ,  $R'$ ,  $R'' = H$  or Alkyl, and  $R''' = Alkyl$ .

10. **(Previously Presented)** The material according to Claim 8, wherein said electron-acceptor or p-delocalizing groups in the said 5-position are selected from a group consisting of  $-CX_3$ ,  $-CX_2$ ,  $-CX$ ,  $-SO_3R$ ,  $-CR=CR_2$ ,  $-CX=CX_2$ ,  $-COOR$ ,  $-SO_3R$ ,  $-SO_3M$  and  $-COOM$ , whereby  $X=F$ ,  $Cl$ ,  $Br$ ;  $R = H$  or Alkyl, and  $M = metal\ ion$ .

11. **(Original)** The material according to Claim 9, wherein said electron-acceptor or p-delocalizing groups in said 5-position are selected from a group consisting of  $-CX_3$ ,  $-CX_2$ ,  $-CX$ ,  $-SO_3R$ ,  $-CR=CR_2$ ,  $-CX=CX_2$ ,  $-COOR$ ,  $-SO_3R$ ,  $-SO_3M$  and  $-COOM$ , whereby  $X=F$ ,  $Cl$ ,  $Br$ ;  $R = H$  or Alkyl, and  $M = metal\ ion$ .

12. **(Original)** The material according to Claim 8, wherein said electron-donor group in the said 3- or 4-position is  $-CH_3$  and said electron-acceptor group in the said 5-position is  $-CF_3$ .

13. **(Original)** The material according to Claim 8, wherein said electron-donor group in said 3- or 4-position is  $-OR$  and said electron-acceptor group in said 5-position is  $-CF=CF_2$ .

14. **(Original)** The material according to Claim 8, wherein said electron-donor

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group in the said 3- or 4-position is  $-\text{CH}_3$  and said electron-acceptor group in said 5-position is  $-\text{CF}=\text{CF}_2$ .

**15. (Currently Amended)** An electroluminescent device comprising:

an anode,

an organic hole injecting and transporting first layer,

an organic electron injecting and transporting second layer;

a cathode and

a luminescent third layer of tris(8-quinolinolato)aluminum(III) ( $\text{Alq}_3$ ), wherein said  $\text{Alq}_3$  is substituted ~~solely~~ in positions selected from the group consisting of the 3- or 4-position<sub>1</sub> and the 5-position<sub>2</sub> wherein the 3- or 4-position is substituted with a group consisting of an electron-donor group and simultaneously substituted in said 5-position with a group consisting of an electron-acceptor or a p-delocalizing group.

**16. (Original)** An electroluminescent device according to Claim 15, wherein said electron-donor group in the 3-or 4-positions is selected from the group consisting of  $-\text{CR}'\text{R}''\text{R}'''$ ,  $\text{NR}_2$ , and  $-\text{OR}$ , wherein  $\text{R}$ ,  $\text{R}'$ ,  $\text{R}''=\text{H}$  or Alkyl and  $\text{R}'''=\text{Alkyl}$ .

**17. (Original)** An electroluminescent device according to Claim 15, wherein said electron-donor or p-delocalizing groups in the 5-position are selected from the group consisting of  $-\text{CX}_3$ ,  $-\text{CX}_2$ ,  $-\text{CX}$ ,  $-\text{SO}_3\text{R}$ ,  $-\text{CR}=\text{CR}_2$ ,  $-\text{CX}=\text{CX}_2$ ,  $-\text{COOR}$ ,  $-\text{SO}_3\text{M}$ , and  $-\text{COOM}$ , whereby  $\text{X} = \text{F}, \text{Cl}, \text{Br}$ ;  $\text{R} = \text{H}$  or Alkyl and  $\text{M} = \text{metal ion}$ .

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18. **(Original)** An electroluminescent device according to Claim 16, wherein said electron-donor or p-delocalizing groups in the 5-position are selected from the group consisting of  $-CX_3$ ,  $-CX_2$ ,  $-CX_3$ ,  $-SO_3R$ ,  $-CR=CR_2$ ,  $-CX=CX_2$ ,  $-COOR$ ,  $-SO_3M$ , and  $-COOM$ , wherein  $X = F, Cl, Br$ ;  $R = H$  or Alkyl and  $M =$  metal ion.

19. **(Cancelled)**

20. **(Cancelled)**

21. **(Cancelled)**

22. **(Cancelled)**